

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Nathan D. Cahill, et al

METHOD AND APPARATUS FOR
THREE-DIMENSIONAL SCENE
MODELING AND
RECONSTRUCTION

Serial No.: To Be Assigned

Filed 13 November 2001

Commissioner for Patents
Washington, D.C. 20231

Group Art Unit:

Examiner:

Express Mail Label No. EL809161568US

Date

11/13/01



Sir:

INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION
BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. Unless otherwise indicated, a full text copy of each document is attached. For documents not in English, an English translation or an equivalent English language patent or publication is attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement is submitted according to the following selected paragraph:

- I. ☒ This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the first Office action on the merits or before mailing of a first Office action after the filing of a request for continued examination.
- II. ☐ This Statement is being filed under §1.97(c), with fee, **prior** to either a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Statement is enclosed.

III. ☐ This Statement is being filed under §1.97(c), with a statement under, §1.97(e) **prior** to either a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

☐ each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

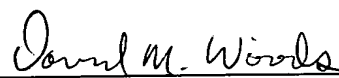
☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification statement under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

IV. ☐ This Statement is being filed under §1.97(d), with fee and statement under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Statement is enclosed. The undersigned hereby states that (check one):

☐ each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

☐ no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification Statement under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,



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Enclosures

FORM PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket No. 82775DMW Customer No. 01333		Serial No.	
If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee		Applicant: Nathan D. Cahill, et al			
LIST OF ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		Filing Date 13 November 2001		Group	

U.S. PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	USSN 09/686,610		Shoupu Chen et al.			10/11/00
	USSN 09/803,802		Shoupu Chen et al.			3/12/01
	USSN 09/572,522		Lawrence A. Ray et al.			5/17/00
	4,935,616	6/19/90	Marion W. Scott	250	213	8/14/89

FOREIGN PATENT DOCUMENTS						
Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
	"Modeling and Rendering Architecture from Photographs: A hybrid geometry- and image-based approach" by Paul E. Debevec, Camillo J. Taylor, Jitendra Malik. Computer Graphics, Annual Conference Series, ACM SIGGRAPH, pp. 11-20, 1996.
	"Zippered Polygon Meshes from Range Images" by Greg Turk and Marc Levoy. Computer Graphics, Annual Conference Series, ACM SIGGRAPH, pp. 311-318, 1994.
	"A Method for Registration of 3-D Shapes" by Paul J. Besl and Neil D. McKay. IEEE Trans. Pattern Analysis and Machine Intelligence, 14(2), pp. 239-256, February 1992).
	"Spin-Images: A Representation for 3-D Surface Matching" by Andrew Edie Johnson. Ph.D. thesis, Carnegie Mellon University, 1997.
	"Automatic 3D Modeling Using Range Images Obtained from Unknown Viewpoints" by Daniel F. Huber. Proc. of the Third International Conference on 3-D Digital Imaging and Modeling (3DIM), May 28-June 1, 2001, pp. 153-160.
	"3-D Scene Data Recovery Using Omnidirectional Multibaseline Stereo" by Sing Bing Kang and Richard Szeliski. Int. Journal of Comp. Vision, 25(2), pp. 167-183, 1997.
	"Innovative range imager sees how targets measure up: For smart weapons and civilian uses too" by Ken Frazier. Sandia Lab News, vol. 46, No. 19, September 16, 1994.

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.